

Pulling an Image

1. Checking images

```
C:\Users\JervinJosh>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    7e0aa2d69a15   6 weeks ago    72.7MB
```

2. Pulling an image

```
C:\Users\JervinJosh>docker search ubuntu
NAME                                DESCRIPTION                                STARS     OFFICIAL   AUTOMATED
ubuntu                              Ubuntu is a Debian-based Linux operating sys... 12353     [OK]
dorowu/ubuntu-desktop-lxde-vnc     Docker image to provide HTML5 VNC interface ... 539       [OK]
websphere-liberty                  WebSphere Liberty multi-architecture images ... 273       [OK]
rastasheep/ubuntu-sshd             Dockerized SSH service, built on top of offi... 253       [OK]
consol/ubuntu-xfce-vnc             Ubuntu container with "headless" VNC session... 241       [OK]
ubuntu-upstart                    Upstart is an event-based replacement for th... 110       [OK]
```

```
C:\Users\JervinJosh>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
80bce60046fa: Pull complete
55a738a15540: Pull complete
e19cf0706c62: Pull complete
de4cdd6c27d1: Pull complete
Digest: sha256:9775877f420d453ef790e6832d77630a49b32a92b7bedf330adf4d8669f6600e
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04
```

3. Pulling a different version of the same image

```
C:\Users\JervinJosh>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10
```

```
C:\Users\JervinJosh>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        16.04     9ff95a467e45   2 weeks ago    135MB
ubuntu        latest    7e0aa2d69a15   6 weeks ago    72.7MB
ubuntu        16.10     7d3f705d307c   3 years ago    107MB
```

4. Deleting an image

```
C:\Users\JervinJosh>docker rmi ubuntu:16.10
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e
```

Running our container

1. Hello World

```
C:\Users\JervinJosh>docker run ubuntu:16.04 /bin/echo 'Hello World!'
'Hello World!'
```

2. I have previous containers because i tried the steps in the youtube video earlier today

```
C:\Users\JervinJosh>docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
28de8eed5902   ubuntu   "/bin/bash"   5 hours ago   Up 5 hours           vibrant_pasteur
7ad5826f0165   ubuntu   "/bin/bash"   6 hours ago   Up 6 hours           xenodochial_faraday

C:\Users\JervinJosh>docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
6ce53e965984   ubuntu:16.04   "/bin/echo 'Hello Wo..."   About a minute ago   Exited (0) About a minute ago   pensive_rosalind
adfe657828a8   ubuntu   "/bin/bash"   5 hours ago   Exited (0) 13 minutes ago   elegant_lovelace
28de8eed5902   ubuntu   "/bin/bash"   5 hours ago   Up 5 hours           vibrant_pasteur
7ad5826f0165   ubuntu   "/bin/bash"   6 hours ago   Up 6 hours           xenodochial_faraday
def6fe4ff81e   ubuntu   "/bin/bash"   6 hours ago   Exited (0) 6 hours ago   vigorous_snyder
```

3. Interactive container

```
C:\Users\JervinJosh>docker run -it ubuntu:16.04 /bin/bash
root@0ef1e8b66e14:/# pwd
/
root@0ef1e8b66e14:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@0ef1e8b66e14:/# exit
exit
```

4. Detached mode

```
C:\Users\JervinJosh>docker run -d ubuntu:16.04 /bin/sleep 3600
19df588af49c645d8a89d006fdf80c9538311e535b13b6de74f2eabddc85d052

C:\Users\JervinJosh>docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
19df588af49c   ubuntu:16.04   "/bin/sleep 3600"   12 seconds ago   Up 12 seconds           sweet_wright
```

5. Reattaching

```
C:\Users\JervinJosh>docker exec -it 19d /bin/bash
root@19df588af49c:/# ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0   4372   668 ?        Ss   16:18   0:00 /bin/sleep 3600
root         7  0.0  0.0  18236  3300 pts/0    Ss   16:20   0:00 /bin/bash
root        17  0.0  0.0  34420  2852 pts/0    R+   16:37   0:00 ps aux
root@19df588af49c:/# exit
exit

C:\Users\JervinJosh>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS   NAMES
19df588af49c   ubuntu:16.04   "/bin/sleep 3600"       18 minutes ago Up 18 minutes          sweet_wright
```

6. Stopping a container

```
C:\Users\JervinJosh>docker stop 19d
19d

C:\Users\JervinJosh>docker stop 9c7
9c7

C:\Users\JervinJosh>docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS   NAMES
19df588af49c   ubuntu:16.04   "/bin/sleep 3600"       20 minutes ago Exited (137) 35 seconds ago          sweet_wright
9c78f3d18334   ubuntu:16.04   "/bin/sleep 3600"       20 minutes ago Exited (137) 18 seconds ago          intelligent_golick
```

7. Removing containers

```
C:\Users\JervinJosh>docker rm 19d
19d

$ docker rm $(docker ps -a -q)
c6e1fb658144
e563b5233944
aec9e1bb891f
0ef1e8b66e14
cb571a8dc23d
6ce53e965984
adfe657828a8
def6fe4ff81e
```